

## (A) NUMBERING MODULE ADJUSTMENT

(1) REQUIREMENT

EACH MODULE CENTERED ON ITS TRACK

(2) REQUIREMENT

CONNECTOR PLUG ON EACH MODULE ENGAGES ITS ASSOCIATED RECEPTACLE TO PERMIT QUICK CONNECT-DISCONNECT WITH LEAST INTERFERENCE.

- TO ADJUST
  - (1) REMOVE DRAWER ASSEMBLY FROM CABINET. LOOSEN SHOULDER SCREW THAT GUIDES MODULE AT REAR OF DRAWER. LOOSEN SCREWS THAT MOUNT THE CONNECTOR RECEPTACLE, AND THE SCREWS THAT SECURE THE CONNECTOR BRACKET TO THE DRAWER. MOVE BRACKET TO REARMOST POSITION. INSERT AND CENTER MODULE. MAKE FRONT EDGE OF MODULE PARALLEL AND FLUSH WITH FRONT EDGE OF DRAWER CHANNEL. REMOVE MODULE AND TIGHTEN SHOULDER SCREW. CHECK AND REFINE.
  - (2) WITH MODULE REINSERTED AND SECURED, POSITION CONNECTOR BRACKET AND CONNECTOR SO RECEPTACLE FULLY ENGAGES PLUG. TIGHTEN BRACKET SCREWS AND THEN RECEPTACLE MOUNTING SCREWS.

## (B) CONTROL PANEL ASSEMBLY

REQUIREMENT

CONTROL PANEL ON DRAWER ASSEMBLY POSITIONED SO NUMERALS ON MODULES ARE CENTRALLY LOCATED WITH RESPECT TO CONTROL PANEL WINDOWS.

TO ADJUST

- POSITION PANEL HORIZONTALLY WITH RIGHT AND LEFT BRACKET MOUNTING SCREWS LOOSENED.
- (2) POSITION PANEL VERTICALLY WITH MAGNET BRACKET EXTENSION SHOULDER SCREW LOOSENED.

# (C) CONTROL PANEL MAGNET ADJUSTMENT

REQUIREMENT

WHEN CLOSED, CONTROL PANEL EDGES SHOULD BE PARALLEL TO CABINET UPRIGHTS. TO ADJUST

POSITION MAGNET LATCH ASSEMBLY WITH MOUNTING SCREWS LOOSENED.

Figure 5-107. Universal Cabinet, Control Panel Assembly

## 1. TANDEM MESSAGE IDENTIFICATION MODULE

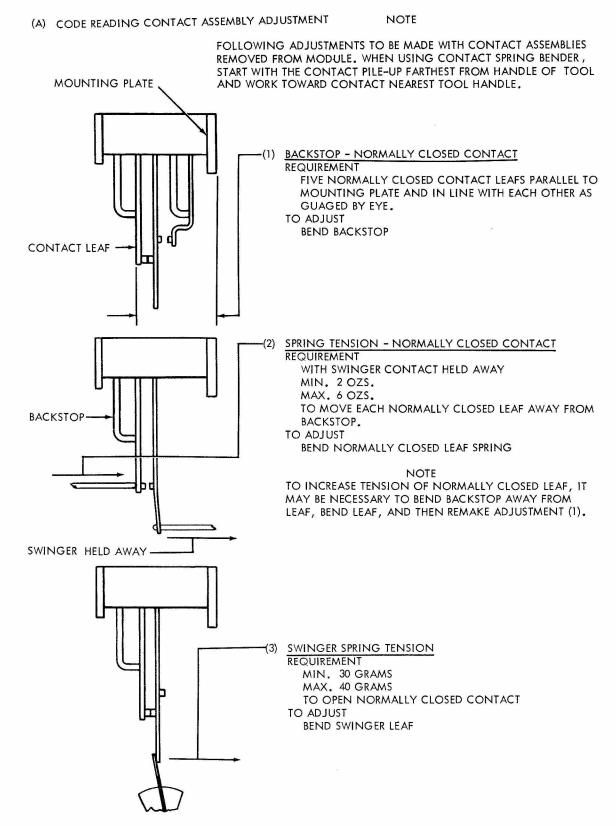
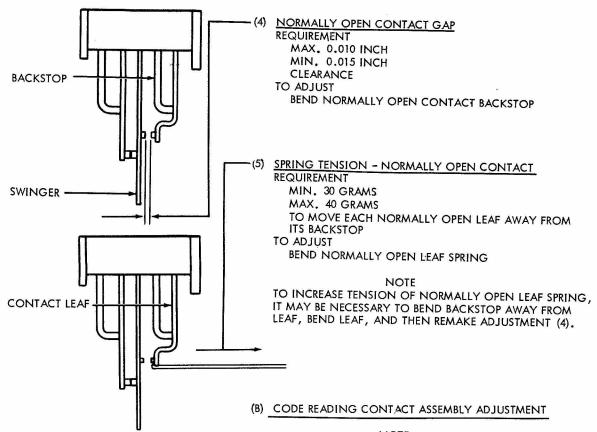


Figure 5-108. Tandem Message Identification Module, Code Reading Contact Assembly



NOTE

FOLLOWING ADJUSTMENTS TO BE MADE WITH CONTACT ASSEMBLIES MOUNTED ON THEIR BRACKETS, AND PLACED IN THE NUMBERING MODULE. BRACKET SHOULD BE APPROXIMATELY CENTERED IN ITS ADJUSTMENT RANGE.

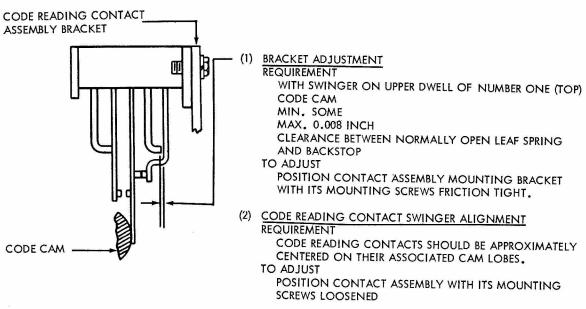


Figure 5-109. Tandem Message Identification Module, Code Reading Contact Assembly

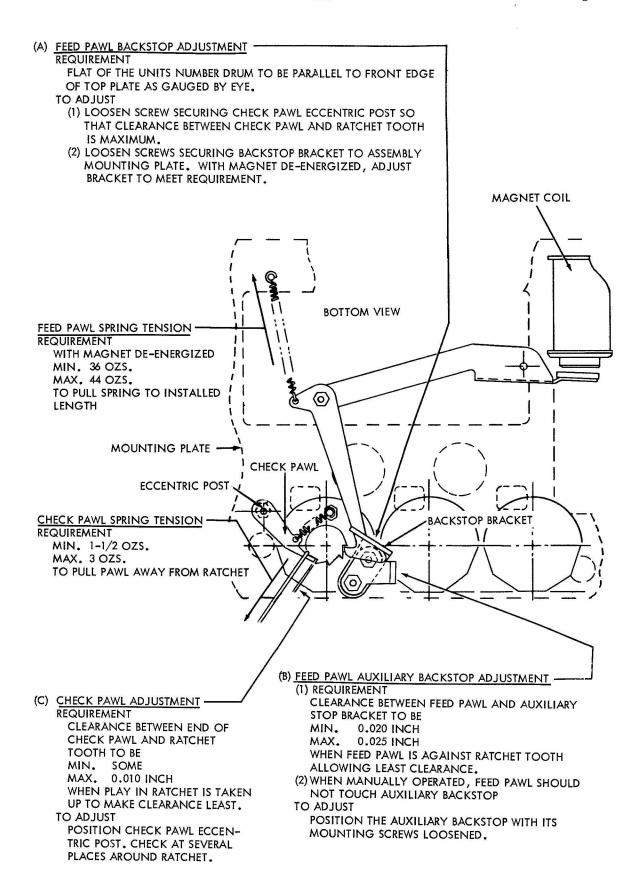
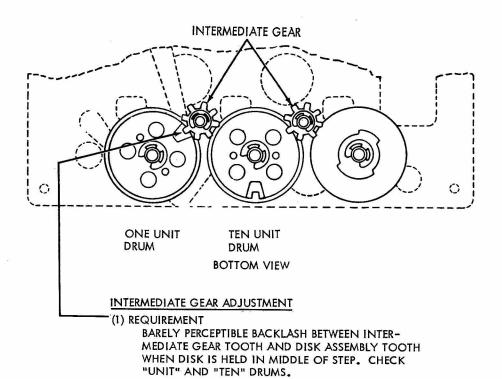


Figure 5-110. Tandem Message Identification Module, Feed and Check Pawls



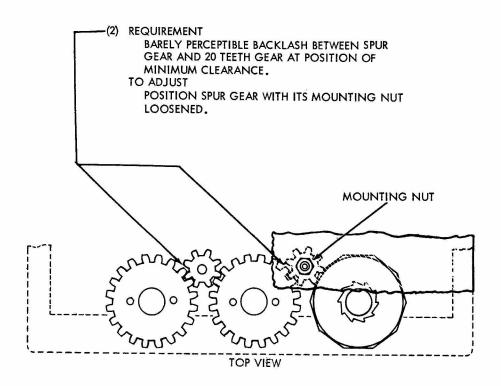


Figure 5-111. Tandem Message Identification Module, Intermediate Gear

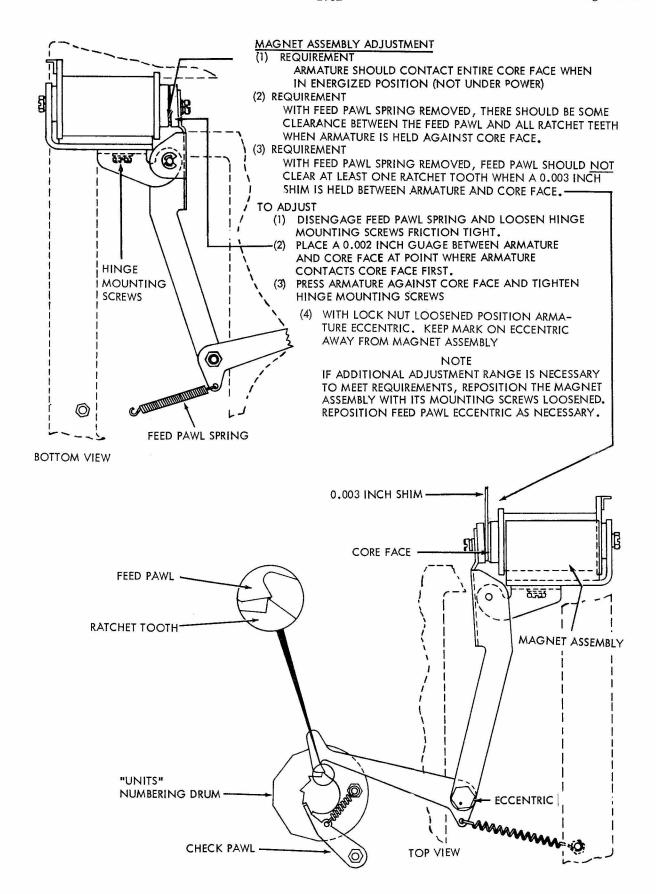
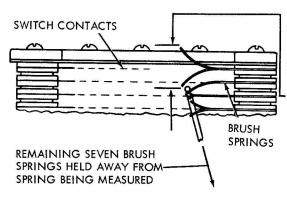


Figure 5-112. Tandem Message Identification Module, Magnet Assembly

#### NOTE

ADJUSTMENTS ON THE RELAYS AND THE STEPPING SWITCH WILL NOT BE REQUIRED UNDER NORMAL CONDITIONS. IN EMERGENCY CASES, WHEN A REPLACEMENT IS NOT AVAILIABE OR DURING A MAJOR OVERHAUL, ADJUSTMENTS SHOULD BE MADE ONLY BY QUALIFIED PERSONNEL.

# SWITCH BANK REMOVED FROM ASSEMBLY



## BRUSH SPRING TENSION

#### (1) REQUIREMENT

BRUSH SPRINGS SHOULD REST AGAINST THE INNER HUB OF WIPER CONTACTS WITH ENOUGH TENSION TO INSURE GOOD ELECTRICAL CONTACT.

#### NOTE

UNDER NORMAL CONDITIONS THE BRUSH SPRINGS WILL NOT REQUIRE ADJUSTMENT DURING THE LIFE OF THE SWITCH. IF ADJUSTMENT IS NECESSARY, PROCEED AS FOLLOWS:

# (2) REQUIREMENT

WITH SWITCH ASSEMBLY REMOVED FROM BANK, TENSION AND CURVE BRUSH SPRINGS TO OBTAIN A MINIMUM 1/2 INCH SEPARATION OF THE ENDS. TO ADJUST

LOOSEN TWO BANK MOUNTING SCREWS AND REMOVE SWITCH ASSEMBLY. BEND BRUSH SPRINGS AS REQUIRED. REPLACE SWITCH ASSEMBLY.

### CAUTION

USE EXTREME CARE WHEN REASSEMBLING THE SWITCH TO AVOID DAMAGE TO THE BRUSHES AND WIPERS.

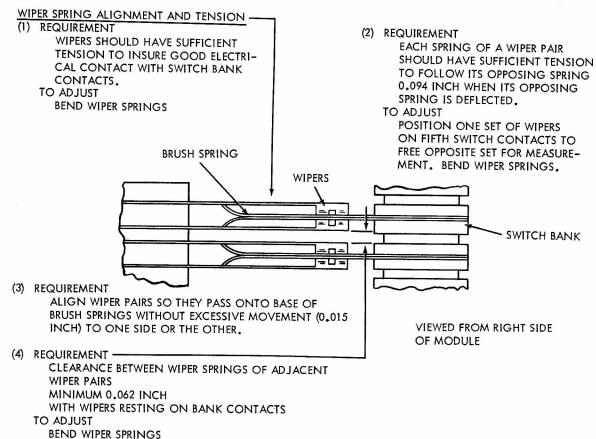
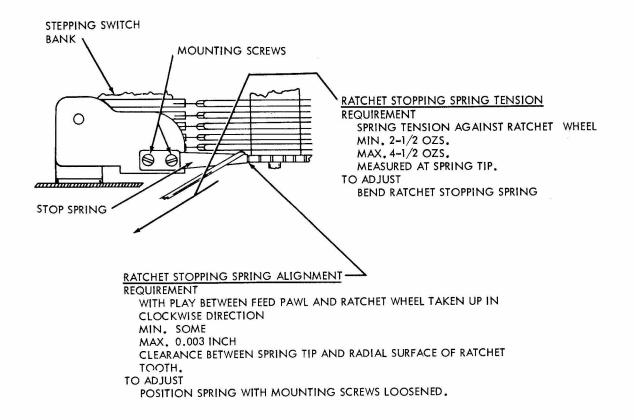


Figure 5-113. Tandem Message Identification Module, Stepping Switch Assembly



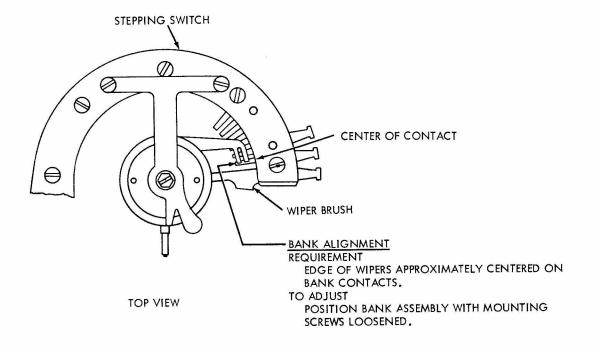
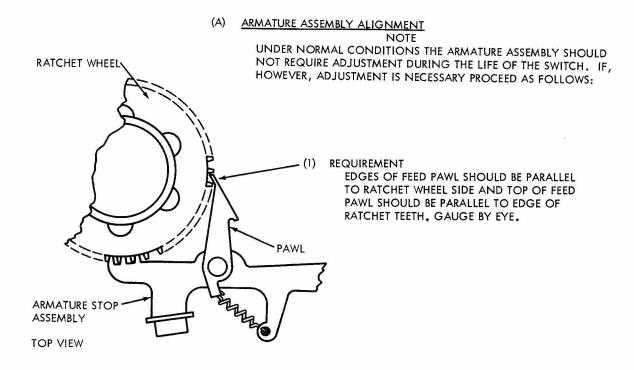


Figure 5-114. Tandem Message Identification Module, Stepping Switch Assembly



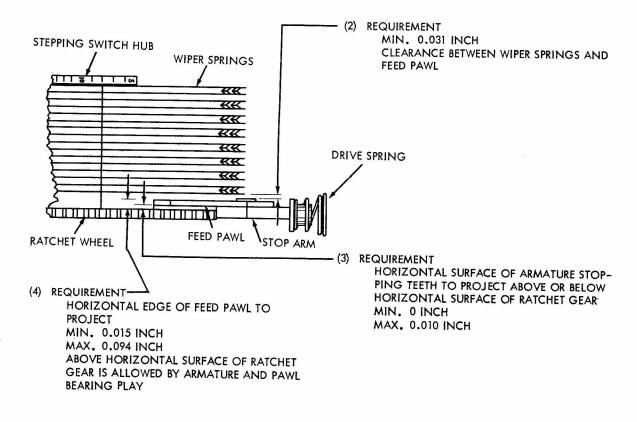


Figure 5-115. Tandem Message Identification Module, Stepping Switch Assembly

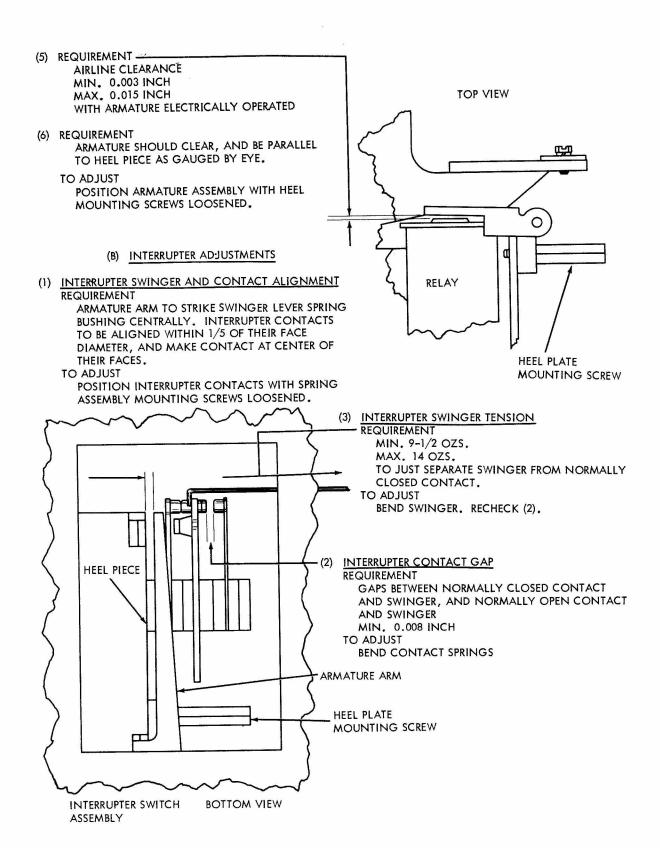


Figure 5-116. Tandem Message Identification Module, Stepping Switch Assembly

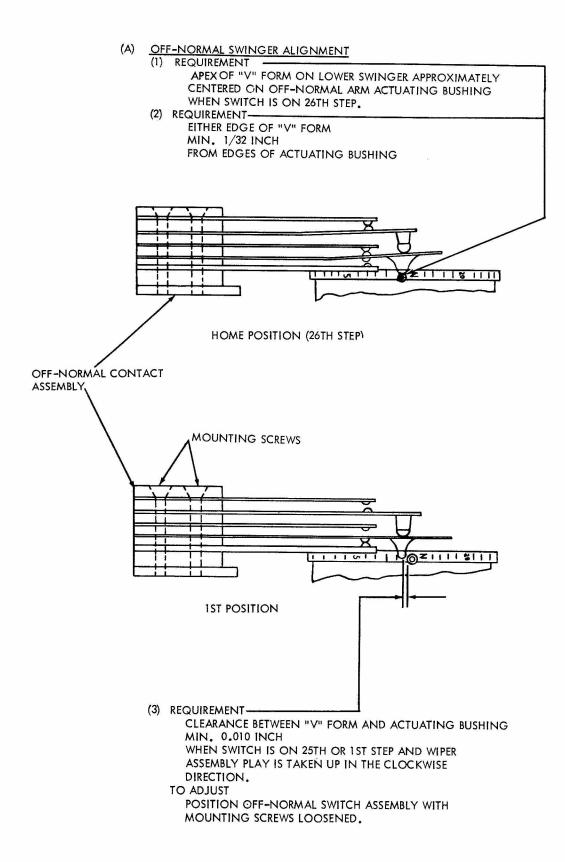


Figure 5-117. Tandem Message Identification Module, Stepping Switch Assembly

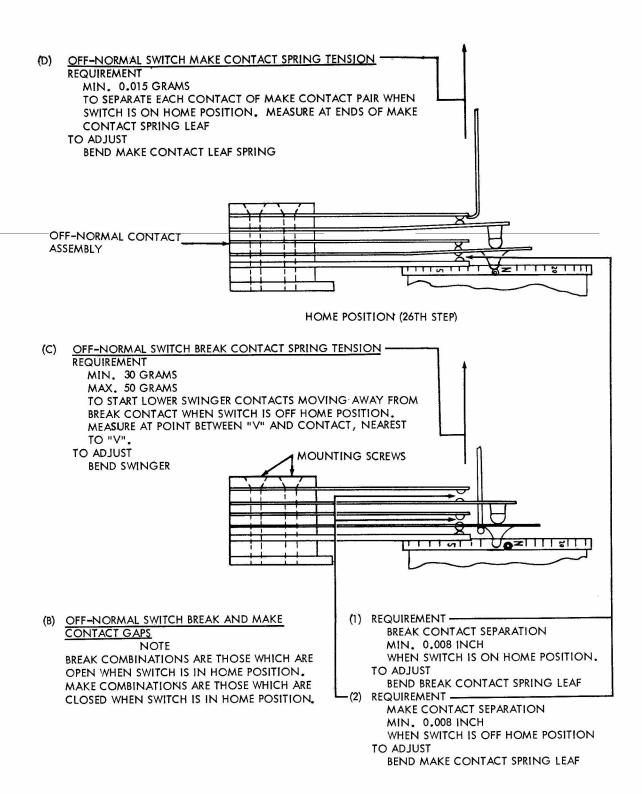


Figure 5-118. Tandem Message Identification Module, Stepping Switch Assembly

## 5-3. LUBRICATION

## a. GENERAL

(1) This section provides lubrication information for the Model 28 Teletype equipment contained in this manual. On the following pages the general areas of the equipment are shown by photographs. The specific points to receive lubricant are indicated by line drawings and descriptive text. The symbols in the text indicate the following directions:

O Apply one drop of oil.

O2 Apply two drops of oil.

O3 Apply three drops of oil, etc.

G Apply thin coat of grease.

SAT Saturate with oil (felt washers, etc.)

L Apply Lubriplate

Teletype KS7470 oil and KS7471 grease should be used.

(2) The equipment should be thoroughly lubricated, but over-lubrication which might allow oil to drop or grease to be thrown on other parts should be avoided. Special care

should be exercised to prevent lubricant from getting between armatures and pole faces or between electrical contact points. The following general instructions supplement the specific lubricating points illustrated on subsequent pages:

Apply one drop of oil to all springs hooks.

Apply a light film of oil to all cam surfaces.

Apply a thick coat of grease to all gears.

Saturate all felt washers, oilers, etc.

Apply oil to all pivot points.

Apply oil to all sliding surfaces.

(3) All equipment should be lubricated before being placed in service or prior to storage. After a few weeks of service, relubricate to make certain that all specified points have received lubricant. Thereafter, the following schedule should be adhered to:

Operating SpeedLubrication Interval60 WPM3000 hours or 1 year\*100 WPM1500 hours or 6 months\*

\*Whichever occurs first.

# e. TANDEM MESSAGE IDENTIFICATION MODULE

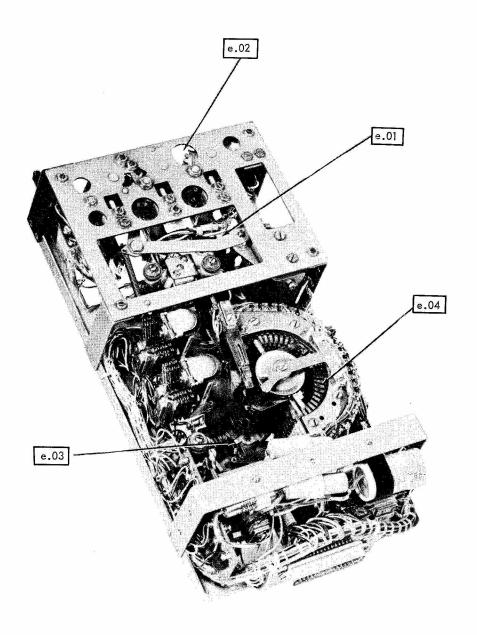
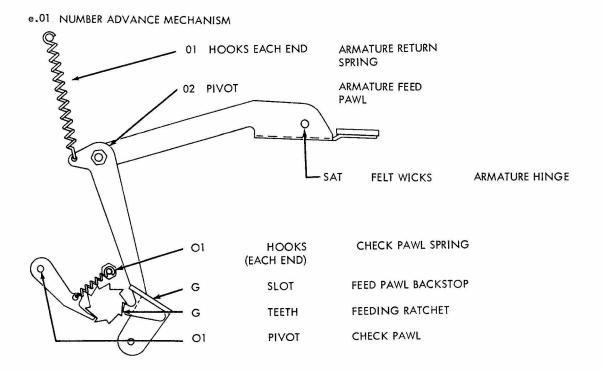


Figure 5-149. Tandem Message Identification Module



## e.02 COUNTER DRUM ASSEMBLY

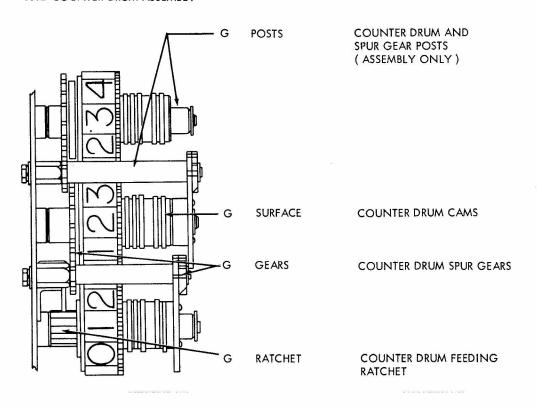
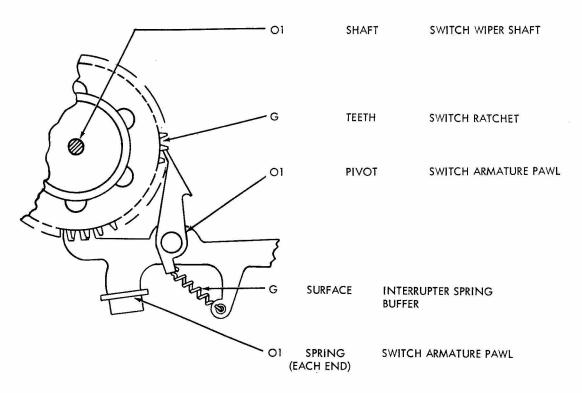


Figure 5-150. Tandem Message Identification Module

## e.03 STEPPING SWITCH FEED MECHANISM



e.04 STEPPING SWITCH ELECTRICAL CONTACTS

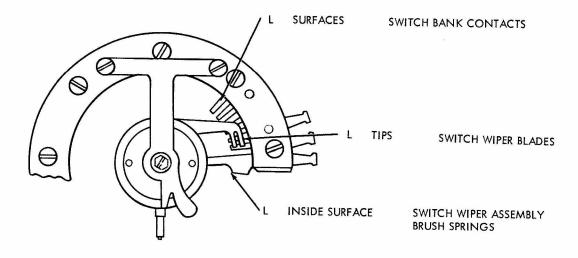


Figure 5-151. Tandem Message Identification Module